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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/902,095	07/11/2001	Richard Kirchofer	017750-328	8095
759	90 06/05/2002			
Patrick C. Keane, Esquire			EXAMINER	
BURNS, DOANE, SWECKER & MATHIS, L.L.P.			ISSING, GREGORY C	
P.O. Box 1404	22212 1404			
Alexandria, VA 22313-1404			ART UNIT	PAPER NUMBER
			3662	

DATE MAILED: 06/05/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary  Og/902,095   Examin r   Art Unit   Gregory C. Issing   3662						
Gregory C. Issing 3662  The MAILING DATE of this communication appears on the cover sheet with th correspondence address  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  If the period for reply is epecified above its est than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  If NO period for reply is epecified above its est than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  If NO period for reply is epecified above its est than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  If NO period for reply is expected above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. \$133).  Any reply received by the Office later than three mornths after the mailing date of this communication, even if timely filed, may reduce any earned patient term adjustment. Set 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filled on						
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11) I The proposed drawing correction filed on the list approved by I disapproved by the Examiner						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application)	- n).					
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)  4) Interview Summary (PTO-413) Paper No(s)  5) Notice of Informal Patent Application (PTO-152) 6) Other:						

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1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 2. Claims 1-36 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. In the claims, the controller "for determining a pointing vector from coordinate information" fails to clearly and distinctly set forth the subject matter. In claim 31, the step of "determining a pointing vector from coordinate information" fails to clearly and distinctly set forth the subject matter. The claim fails to clearly identify what the "coordinate information" is and how it is derived or obtained.

In claim 28, the language "the satellite pointing vector" lacks a proper antecedent basis.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
- 5. Claims 1, 3, 4, 9-13, 16-18, 24, 25, 31 and 33-36 are rejected under 35 U.S.C. 102(e) as being anticipated by Velaquez et al.

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6. Velaquez et al disclose the claimed antenna apparatus and method wherein each of a plurality of communicators control the beamforming electronics in accordance with GPS determined position so as to provide an optimal communication link.

- 7. Claims 1, 3, 4, 9-13, 16-18, 24, 25, 31 and 33-36 are rejected under 35 U.S.C. 102(e) as being anticipated by Taniguichi et al.
- 8. Taniguichi et al disclose an apparatus and method for selectively controlling the antenna pattern of an antenna array by determining pointing vectors to one or a plurality of mobile users, each of which transmits positional information. using the received positional information and the setup position of the base station, the antenna pattern is controlled so as to form transmit/receive lobes in the directions of the mobile users.
- 9. Claims 1-6, 8-31 and 33-36 are rejected under 35 U.S.C. 102(b) as being anticipated by Bartholomew.

Bartholomew discloses the use of coordinate data to aid in the steering of a radio frequency beam output from an antenna array.

- 10. Claims 1-36 are rejected under 35 U.S.C. 102(b) as being anticipated by Dixon.
- 11. Dixon discloses the aiming of an antenna toward a satellite using coordinate data, i.e. position of the antenna and position of the satellite. The claimed antenna design/structure relates to conventional GPS antenna design.
- 12. Claims 1-36 are rejected under 35 U.S.C. 102(b) as being anticipated by Miyoshi.
- 13. Miyoshi discloses a satellite capturing and tracking method and apparatus that utilizes coordinate data to steer an RF beam. The claimed antenna design/structure relates to conventional GPS antenna design.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Gregory C. Issing whose telephone number is (703)-306-4156.

The examiner can normally be reached on Mon-Thurs 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thomas Tarcza can be reached on (703)-306-4171. The fax phone numbers for the

organization where this application or proceeding is assigned are (703)-872-9326 for regular

communications and (703) 872-9327 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-1113.

Primary Examiner

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gci

June 3, 2002